

5,848,962	Feindt et al.
5,904,646	Jarrik
6,132,363	Freed et al.
6,146,325	Lewis et al.
US 6,254,525 B1	Reinhardt et al.
US 6,530,876 B1	Spence
US 6,585,635 B1	Aldrich

The 12 patents will be discussed as a group. In this discussion when "patent" or "patented device" is mentioned, it is meant to be the "patent" or "patented device" of each and every of the 12 patents, not meant to be the "patent" or "patented device" in the present patent application.

(1) While physician(s) may be involved in inventing the patented device, the said physician(s) cannot talk to, and examine his imaginary patient. The said "patented device" not only does not help the said physician(s) to take care of his patient, but also prevent the said physician(s) from a most important function, to examine, and to talk to his patient in order to arrive at a proper diagnosis. Thus (1) contradicts the condition (a) mentioned above.

(2) The said "patented device" works directly on the patient, without any further interference or help from the said physicians who developed the said patented device. Thus (2) contradicts (b).

(3) In working on the said patented device, the said physician(s) may have improved his capabilities or skill. While this improvement can help to improve the said "patented device" during its development process, it is no more than a part and

parcel of the said patented device. It cannot help the patient in any way except through the said "patented devices", and is thereby distinguishable from (a).

Summarizing (1), (2), and (3), in contrast to (a) and (b), we can safely conclude that the device for which I am applying for an U.S patent is distinguishable from each and everyone of the twelve cited patents.

Ammended Claim7

An enhanced ventricular assist device (EVAD) for use by physician(s) to take care of a patient with diseased heart, said EVAD comprising one or more linear flow blood pump(s), and means for sending electrical pulses to said patient's said diseased heart.

Remarks:

Exactly the same remarks which apply to Claims 1, Claim 6 and subsidiary Claims to Claim 1, also apply to Claim 7, Claim 12, and subsidiary Claims to Claim 7.

CLAIMS

1. An enhanced ventricular assist device (EVAD) for use by physician(s) to take care of a patient with diseased heart, said EVAD comprising one or more ventricular assist device(s), and means for sending electrical pulses to said patient's said diseased heart.
2. An EVAD according to Claim 1, with means for controlling either or both the pulse rate and voltage of said electrical pulses sent by said means to the said patient's said diseased heart.
3. An EVAD according to Claim 1 with means for measuring clinical and biological signals at organs on the said patient's body. (CBS) and means for monitoring said CBS.
4. An EVAD according to Claim 3, with means for monitoring said CBS in synchronization with said electrical pulses.
5. An EVAD according to Claim 4 with a set of commands and automatic means for carrying out any one of the said set of commands one at a time.
6. An EVAD according to Claim 5 having a computer with physician modifiable software for automatically selecting a sequence from the said set of commands in response to said CBS and said automatic means for carrying out the said software selected sequence one command at a time, the said response to said CBS being nullified until the said sequence having been done.
7. An enhanced ventricular assist device (EVAD) for use by physician(s) to take care of a patient with diseased heart, said EVAD comprising one or more linear flow blood pump(s), and means for sending electrical pulses to said patient's said diseased heart.
8. An EVAD according to Claim 7, with means for controlling either or both the pulse rate and voltage of said electrical pulses sent by said means to the said patient's said diseased heart.
9. An EVAD according to Claim 7 with means for measuring clinical and biological signals at organs on the said patient's body (LCBS) and means for monitoring said LCBS.
10. An EVAD according to Claim 9, with means for monitoring said LCBS in synchronization with said electrical pulses.

11. An EVAD according to Claim 10 with a set of prototype commands and automatic means for carrying out any one of the said set of commands one at a time.
12. An EVAD according to Claim 11 having a computer with physician modifiable computer software for automatically selecting a sequence from the said set of commands in response to the said LCBS and said automatic means for carrying out the said computer software selected sequence one at a time, the said response to said LCBS being nullified until the said sequence having been done.
13. An EVAD according to Claim 7, with control means for controlling the blood output pressure and volume of each of the said linear flow blood pump(s) independently.
14. An EVAD according to Claim 13, in which said control means controls the blood output pressure and volume of each of the said linear flow blood pump(s) by varying the magnitude and frequency of the electrical motor currents of the said linear flow blood pump(s).
15. An EVAD according to Claim 7, in which magnetic induction means are used for transference of signal, information, and power across the skin without puncturing the skin.

LIST OF REFERENCES

- [1] "Linear Flow Blood Pump" is the subject matter of US patent #6,361,292 B1.